NeroCmd

v1.5

User's Manual

NeroCmd will only work with
a fully installed Nero version!

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Ahead Software AG, Im Stockmaedle 18, 76307 Karlsbad, Germany

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2. License Agreement

IMPORTANT: PLEASE READ THE SOFTWARE LICENSE AGREEMENT ("LICENSE") CAREFULLY BEFORE USING THE SOFTWARE.

USING THE SOFTWARE INDICATES YOUR ACKNOWLEDGMENT THAT YOU HAVE READ THE LICENSE AND AGREE TO ITS TERMS.

The license agreement is contained in a text file, "NeroSDK_License.txt", to be found in the root folder of the installation package.

3. Introduction

3.1. Motivation

NeroCmd is a console application that facilitates the processing of commands understood by the *NeroAPI*.

This part of the documentation has been created for users who want to benefit from the functionality without having to understand the machinery inside. If, however, you should be interested in finding out more about the inner mechanics of the software you will find a detailed discussion in the "NeroCmd Developer's Manual". That paper will give you enough information to let you to change the NeroCmd parser to fit your own, more refined requirements.

3.2. Overview

This paper will provide a comprehensive list of available options for NeroCmd, and examples of use. NeroCmd can perform the following tasks:

- List all available drives
- Get CD info for a presently inserted CD into some drive
- Burn:
    - ISO DVD
    - ISO/Audio CD
    - Video CD
    - Super Video CD
    - CD from image
    - Freestyle CD
- Grab Audio tracks and store them in disk files (Digital Audio Extraction)
- Eject/Load CD from drive
- Erase CD Rewritable/ DVD Rewritable
- Display NeroAPI version information

3.3. Requirements

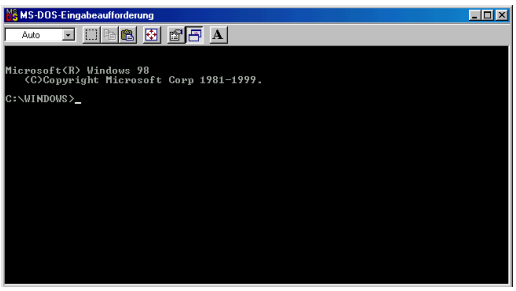
NeroCmd will work on any platform which is fit for hosting ***Nero 5.5.7.8***. Nero needs to be installed and licensed prior to using NeroCmd.

NeroCmd will not work with Linux.

You can obtain the latest version of Nero from http://www.nero.com.

4. Using the Sample Parameter File

A sample parameter file is provided with the NeroCmd application. You can use and alter it as you wish.



Open a Command Shell and change to the drive and directory where NeroCmd.exe is stored on your hard drive.

If NeroCmd.exe is in d:\NeroCmd\ you would type:

```
d:<ENTER>
```

to change to drive D and then

```
cd NeroCmd<ENTER>
```

The sample parameter file is named *ParameterFile.txt*. Now type

```
NeroCmd @ParameterFile.txt<ENTER>.
```

This will have the same effect as typing this line:

```
NeroCmd --real --tao --close_session --import 0 --drivename e --write --iso test
.\TestFiles\*.exe --disable_eject -error_log MyErrorLog.txt<ENTER>
```

Here is what the content of ParameterFile looks like:

```
; Parameter File for demonstration purposes
; Comments are started with a semicolon

--write     ; select write command
--real -tao ; no simulation, track at once
--close_session ; close session rather than entire disc
--import 0 ; import session 0
--iso test .\TestFiles\*.exe  ; volume name is "test". Files in "TestFiles"
--disable_eject --drivename e ; do not eject disc after burning
--error_log MyErrorLog.txt ; Give the error log a different name
```

5. Using NeroCmd

This application can read information about a CD, burn audio CDs, burn ISO CDs, burn mixed mode CDs, burn Video and Super Video CD, extract CDA tracks.

Open a command window (MS-DOS shell) and type "NeroCmd" followed by a command and in most cases a parameter list.

For example the following command will output information about the CD in drive D.

```
NeroCmd --cdinfo --drivename d
```

See the chapters below for valid parameter combinations. Square brackets indicate that a parameter is optional. However, when writing an Audio/ISO CD you have to supply at least one valid set of parameters.

5.1. List Available Drives

This command will output a formatted list of all available CD-ROM drives.

Command	**Function**	
--listdrives	List available drives	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log's file name. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.

5.2. Obtain Information About A CD

This command will output what kind of media the drive contains: CD-ROM, CD-R or CD-RW. It will also output additional information like CD title, free capacity, number of tracks, track details etc.

Command	Function	
--cdinfo	Obtain information about a CD	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log's file name. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.

5.3. Write Audio/ISO CD or ISO CD/DVD

This function will burn ISO CDs/DVDs and Audio/ISO CDs, allowing settings like Rockridge format, UDF or import of ISO tracks.
Often referred to as CD EXTRA or CD Plus these Audio/ISO discs contain two sessions. The first session contains up to 98 audio tracks; the second session contains the data track. When played on an audio player, it only sees the first session and so does not try to play the data session.

Command	Function	
--write	Write Audio/ISO/Mixed Mode CD	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log's file name. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.
	[--real]	Forces the disk to be burned, if not specified the process is only simulated.
	[--tao]	Disk is burned in TAO (Track At Once) mode, if not specified DAO (Disk At Once) is default.
	[--artist <artist>]	Supply artist's name for Audio CD.
	[--title <title>]	Supply Audio CD title.

Command	Function	
--write	Write Audio/ISO/Mixed Mode CD continued…	
	Parameters	**Description**
	[--speed <speed>]	<speed> is speed at which the CD will be burned.
	[--audio <file1> <file2> …]	Disk is burned with Audio information. A list of Audio files to burn is supplied. Allowed types are wav, mp3, wma and pcm.
	[--cdextra]	CD Extra will arrange the ISO track behind the audio tracks in a seperate session, so the CD can be played by regular Audio CD players.
	[--dvd]	Burn on DVD or DVDRW media. This option cannot be used in combination Audio or mixed mode.
	[--import XY]	Import session number XY.
	[--iso <volumename>]	Name the ISO-volume.
	[--iso-no-joliet]	No long filenames.
	[--iso-mode2]	Select ISO mode 2.
	[--speedtest]	Test speed before burning.
	[--enable_abort]	Notify which operations can and which cannot be aborted.
	[--close_session]	Close session, not the whole disk.
	[--detect_non_empty_cdrw]	Detect if burn process is to take place on a non-empty CDRW and offer to take certain actions.
	[--force_erase_cdrw]	In combination with –detect_non_empty_cdrw this parameter will erase a non-empty CDRW without prompting the user.
	[--cd_text]	Write CD Text (if supported by device).
	[--underrun_prot]	Protect from underrun condition.
	[--import_rockridge]	Import Rockridge format.
	[--import_iso_only]	Import ISO only.
	[--prefer_rockridge]	Prefer Rockridge format.
	[--use_rockridge]	Use Rockridge format.
	[--create_iso_fs]	Create ISO file system.
	[--create_udf_fs]	Create UDF file system.
	[--disable_eject]	Disables CD ejection after burn completion.
	[--verify]	Verify ISO filesystem after writing.
	[<disk file1> <disk file 2> …]	At least one audio file or one disk file needs to be specified!

5.4. Write Video CD

This function will create a Video CD. A video CD contains MPEG full-motion video sequences.

Command	Function	
--write	Write Video CD	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.
	[--real]	Forces the disk to be burned, if not specified the process is only simulated.
	[--tao]	Disk is burned in TAO (Track At Once) mode, if not specified DAO (Disk At Once) is default.
	--videocd	Mandatory parameter for Video CDs
	[--speed <speed>]	<speed> is speed at which the CD will be burned.
	[--speedtest]	Test speed before burning.
	[--enable_abort]	Notify which operations can and which cannot be aborted.
	[--close_session]	Close session, not the whole disk.
	<video file 1> [<video file 2> …]	List of video files. At least one file needs to be specified!
	[--iso <volumename>]	Name the ISO-volume.
	[iso-no-joliet]	No long filenames.
	[iso-mode2]	Select ISO mode 2.
	[--speedtest]	Test speed before burning.
	[--enable_abort]	Notify which operations can and which cannot be aborted.
	[--close_session]	Close session, not the whole disk.
	[--detect_non_empty_cdrw]	Detect if burn process is to take place on a non-empty CDRW and offer to take certain actions.
	[--force_erase_cdrw]	In combination with –detect_non_empty_cdrw this parameter will erase a non-empty CDRW without prompting the user.
	[--underrun_prot]	Protect from underrun condition.
	[--disable_eject]	Disables CD ejection after burn completion.
	[<disk file 1> <disk file 2> …]	At least one one disk file needs to be specified if ISO has been selected.

5.5. Write Super Video CD

This function will create a Super Video CD (SVCD). Compared to Video CD the SVCD supports higher resolutions and variable bitrate, MPEG-2 video encoding as well as MPEG-1 or MPEG-2 audio encoding.
You must use a 2x or faster CD-ROM drive to read SVCDs, as opposed to 1x drives for VCD.

Command	Function	
--write	Write Super Video CD	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.
	[--real]	Forces the disk to be burned, if not specified the process is only simulated.
	[--tao]	Disk is burned in TAO (Track At Once) mode, if not specified DAO (Disk At Once) is default.
	--svideocd	Mandatory parameter for Super Video CDs
	[--speed <speed>]	Select desired speed.
	[--speedtest]	Test speed before burning.
	[--enable_abort]	Notify which operations can and which cannot be aborted.
	[--close_session]	Close session, not the whole disk.
	<video file 1> [<video file 2> …]	List of video files. At least one file needs to be specified!
	[--iso <volumename>]	Name the ISO-volume.
	[iso-no-joliet]	No long filenames.
	[iso-mode2]	Select ISO mode 2.
	[--speedtest]	Test speed before burning.
	[--enable_abort]	Notify which operations can and which cannot be aborted.
	[--close_session]	Close session, not the whole disk.
	[--detect_non_empty_cdrw]	Detect if burn process is to take place on a non-empty CDRW and offer to take certain actions.
	[--force_erase_cdrw]	In combination with –detect_non_empty_cdrw this parameter will erase a non-empty CDRW without prompting the user.
	[--underrun_prot]	Protect from underrun condition.
	[--disable_eject]	Disables CD ejection after burn completion.
	[<disk file 1> <disk file 2> …]	At least one one disk file needs to be specified if ISO has been selected.

5.6. Write Image

This function will burn a CD image, already existing on your harddisk, to a CD-R or CD-RW.

Command	Function	
--write	Write Image	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.
	[--real]	Forces the disk to be burned, if not specified the process is only simulated.
	[--tao]	Disk is burned in TAO (Track At Once) mode, if not specified DAO (Disk At Once) is default.
	--image <image filename>	
	[--speed <speed>]	Select desired speed.
	[--speedtest]	Test speed before burning.
	[--enable_abort]	Notify which operations can and which cannot be aborted.
	[--close_session]	Close session, not the whole disk.
	[--detect_non_empty_cdrw]	Detect if burn process is to take place on a non-empty CDRW and offer to take certain actions.
	[--force_erase_cdrw]	In combination with –detect_non_empty_cdrw this parameter will erase a non-empty CDRW without prompting the user.
	[--underrun_prot]	Protect from underrun condition.
	[--disable_eject]	Disables CD ejection after burn completion.

5.7. Write Freestyle CD

This function will allow you to write any type of CD Layout, e.g. containing a raw data track at the beginning of the disc instead of a self-made ISO/UDF filesystem.
This is good for writing .iso images as can be downloaded everywhere on the net.

Command	Function	
--write	Write Freestyle CD	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.
	[--real]	Forces the disk to be burned, if not specified the process is only simulated.
	[--tao]	Disk is burned in TAO (Track At Once) mode, if not specified DAO (Disk At Once) is default.
	[--artist <artist>]	Supply artist's name for Audio CD.
	[--title <title>]	Supply Audio CD title.
	[--speed <speed>]	Select desired speed.
	[--cdextra]	Select Mixed Mode.
	[--import XY]	Import session number XY.
	[--iso <volumename>]	Name the ISO-volume.
	[--freestyle_mode1 <filename>]	Select freestyle mode 1.
	[--freestyle_mode2 <filename>]	Select freestyle mode 2.
	[--freestyle_audio <filename>]	Select
	[iso-no-joliet]	No long filenames.
	[iso-mode2]	Select ISO mode 2.
	[--speedtest]	Test speed before burning.
	[--enable_abort]	Notify which operations can and which cannot be aborted.
	[--close_session]	Close session, not the whole disk.
	[--detect_non_empty_cdrw]	Detect if burn process is to take place on a non-empty CDRW and offer to take certain actions.
	[--force_erase_cdrw]	In combination with –detect_non_empty_cdrw this parameter will erase a non-empty CDRW without prompting the user.
	[--cd_text]	Write CD Text (if supported by device).
	[--underrun_prot]	Protect from underrun condition.

Command	Function	
--write	Write Freestyle CD continued…	
	Parameters	**Description**
	[--import_rockridge]	Import Rockridge format.
	[--import_iso_only]	Import ISO only.
	[--prefer_rockridge]	Prefer Rockridge format.
	[--use_rockridge]	Use Rockridge format.
	[--create_iso_fs]	Create ISO file system.
	[--create_udf_fs]	Create UDF file system.
	[--disable_eject]	Disables CD ejection after burn completion.
	[--verify]	Verify ISO filesystem after writing.
	[<disk file 1> <disk file 2> …]	Any number of freestyle tracks can be specified up to 99 tracks.

5.8. Read Audio Tracks

CD-ROM drives that have DAE (Digital Audio Extraction) capabilities can be used to create copies of the raw Audio data stored on Audio CDs. This command relies on that capability.

Command	Function	
--read	Read Audio track(s)	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.
	--XY <filename>	Read contents of track with number 'XY' into file 'filename'. The file name has to include the suffix. Only ".pcm" and ".wav" will be accepted.
	[--XY <filename>]	Read additional tracks.

5.9. Erase CDRW/DVDRW media

With this command CDRWs are erased, either by doing a quick erase or by sweeping the whole CDRW to ensure that the data is unretrievably removed.

Command	Function	
--erase	Erase CDRW	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	[--entire]	By default a quick erase is done, where the actual content of the CDRW/DVDRW is not erased.The "—entire" option sweeps the whole CDRW/DVDRW, insuring that no data can be retrieved by any means afterwards.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.

5.10. Eject CD

This command will eject a CD that is loaded in a CD-ROM drive.

Command	Function	
--eject	Eject CD	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.

5.11. Load CD

This command will load a CD into a CD-ROM drive.

Command	Function	
--load	Loads a CD into the drive	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.
	--drivename <name>	<name> is either the "full name" of the drive or the drive letter.

5.12. Retrieve Version Information

This command retrieves version information on the currently used NeroAPI.

Command	Function	
--version	Retrieve version information	
	Parameters	**Description**
	[--no_error_log]	Do not log errors at all.
	[--error_log <log filename>]	Store NeroCmd error messages in <log filename>.
	[--nero_log_timestamp]	Adds a timestamp to the NeroAPI error log. Useful for batch operations.
	[@parameter_file]	parameter_file contains command line arguments.

6. Exit Code

When NeroCmd application terminates it supplies an exit code which indicates whether the requested operation was executed successfully or an error has occured. The following table lists the exit codes that NeroCmd will provide.

Exit Code	Meaning
0	Unknown error.
1	Ok.
2	Bad usage!
3	Internal error!
4	NEROAPI.DLL was not found!
5	Serial number was not found!
6	Serial number is invalid!
7	No CD was inserted!
8	CDRW is not supported!
9	There was an error erasing CDRW!
10	There was an error obtaining a list of available drives!
11	Drive name is missing!
12	There was an error while trying to access the drive!
13	Drive was not found!
14	Unknown CD format!
15	Invalid drive!
16	Burn process failed!
17	Function was not allowed!
18	Drive was not allowed!
19	There was an error obtaining CD info!
20	Track was not found!
21	File type is unknown!
22	Digital audio extraction failed!
23	There was an error openning the file!
24	Out of memory!
25	Error determining the length of input file!
26	Eject/Load failed!
27	Invalid session number to import!
28	Failed to create ISO track!
29	Specified file was not found!
30	User aborted!
31	Demo version has expired!

7. Software Version History

Version	Date	Comments
1.0	November 24, 2000	Initial version.
1.1	December 6, 2000	Updates according to the changes in NeroAPI (version 5.0.3.4). - UserDialog callback function has been modified to support new DLG_NON_EMPTY_CDRW callback. - Two new command line parameters have been added. One is --detect_non_empty_cdrw and the other is --cd_text. - The code around NeroImportIsoTrack has been updated according to the NeroAPI changes. Error handling has been improved.
1.2	April 5, 2001	Updates according to the changes in NeroAPI (version 5.5.0.6). - Changed project name from NeroBATCH to NeroCmd
1.3	April 23, 2001	Updates according to the changes in NeroAPI (version 5.5.1.4). - Added two cmd line options according to the two new NBF_ constants - Added a new EXITCODE_ and a corresponding error message for a new NEROAPI_INIT_DEMOVERSION_EXPIRED constant - Changed NeroAPI initialization to utilize the new shared API feature
1.4	October 28, 2001	Added handling of the --dvd parameter. The DVD burning feature was introduced with NeroAPI 5.5.4.4.
1.5	December 3, 2001	Several Bugfixes: - UserDialog-Input wasn't evaluated properly. - Buffer was overwritten occasionally, causing the application to terminate with an error. Improved Log File Handling Added --force_erase_cdrw command line parameter to delete CDRW without user interaction when combined with --detect_non_empty_cdrw Added --nero_log_timestamp to keep multiple versions of the NeroAPI error log for batch runs.